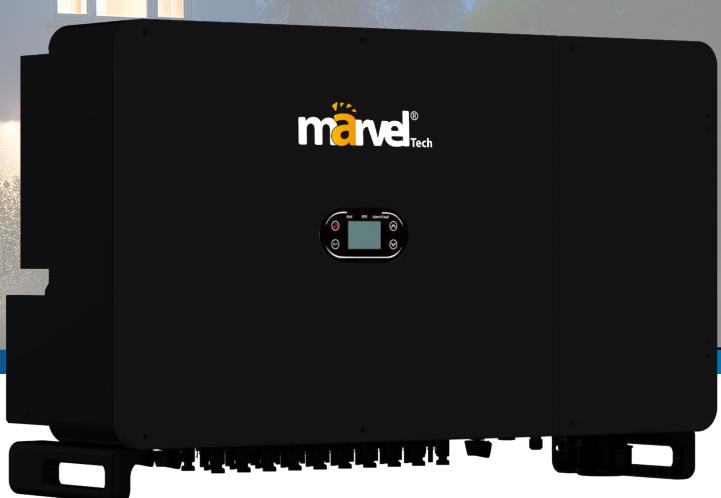




MGSI-03P3-100~136K



### Efficient Higher Revenue

- 9-12 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 150% DC Input Oversizing
- Maximum efficiency of 98.7%. Wide MPPT voltage range: 180V-1000V
- Compatible with high power modules



### Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/DRM/Bluetooth optional): remote monitoring and operation via PC or mobile phones



### Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

# Technical Data

	MGSI-100K-03P3	MGSI-110K-03P3	MGSI-136K-03P3
<b>Input (DC)</b>			
Max. Input Power		150kW	160kW
Max. Input Voltage		1100V	
Start Voltage		250V	
Rated Input Voltage		620V	730V
Full-load MPP Voltage Range		530V ~ 850V	560V ~ 850V
MPPT Voltage Range		180V ~ 1000V	
Number of MPP Trackers	9	10	12
Number of string per MPPT		2	
Max. Current per MPPT		30A	
Max. Short Circuit Current per MPPT		40A	
<b>Output (AC)</b>			
Max. Output Current	158.8A		174.6A
Rated Output Power	100kW	110kW	136kW
Max. Output Power	110kVA	121kVA	150kVA
Rated Grid Frequency		50Hz / 60Hz	
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE, 3L / PE	277Vac / 480Vac , 3L / N / PE, 3L / PE	311Vac / 540Vac, 3L / N / PE, 3L / PE
Power Factor		>0.99 ( 0.8 leading ~ 0.8 lagging )	
THDi		<3% ( Rated Power )	
<b>Efficiency</b>			
Max. Efficiency		98.70%	
European Efficiency		98.50%	
MPPT Efficiency		99.90%	
<b>Protection</b>			
DC reverse polarity protection		Yes	
Anti-islanding protection		Yes	
AC short circuit protection		Yes	
Residual current monitoring unit		Yes	
Insulation resistance monitoring		Yes	
Ground fault monitoring		Yes	
Grid monitoring		Yes	
PV string monitoring		Yes	
Surge protection		Type II	
AFCI protection		Yes	
<b>Communication</b>			
Display		LCD / LED+APP	
Communication		Standard: RS485 WiFi / DRM / Bluetooth / Ethernet	
<b>Standard Compliance</b>			
Certification		IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC/EN 61000-6-2/4, EN50549, IEC61727/IEC62116, CEI 0-21/CEI 0-16, C10/C11, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC RfG, TOR Erzeuger, NRS097-2-1, NB/T 32004	
<b>General Data</b>			
Dimensions (W x H x D)		1050 x 660 x 330 mm	
Weight	95kg	98kg	101kg
Operating Temperature Range		-30° C ~ +60° C	
Cooling Method		Smart forced air cooling	
Protection Degree		IP66	
Max. Operating Altitude		4000m	
Relative Humidity		0 ~ 100%	
Topology		Transformerless	
Night Power Consumption		<1W	